

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011323\
 Data File : VN076242.D
 Acq On : 13 Jan 2023 12:38
 Operator : JC\MD
 Sample : 01124-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-C

Quant Time: Jan 16 01:06:07 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N121422W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 14 13:03:41 2022
 Response via : Initial Calibration

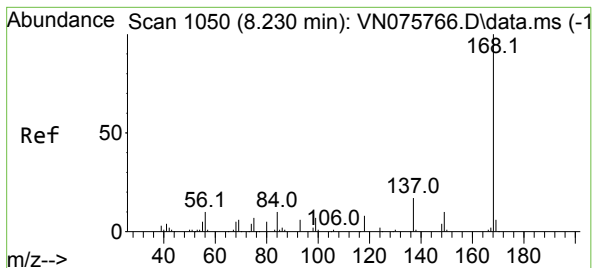
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.229	168	361193	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	583725	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	520568	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	228401	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	199777	50.841	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.680%			
35) Dibromofluoromethane	8.171	113	175056	48.426	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.860%			
50) Toluene-d8	10.571	98	688688	50.954	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.900%			
62) 4-Bromofluorobenzene	12.853	95	221243	49.422	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 98.840%			
Target Compounds						
					Qvalue	
5) Bromomethane	2.953	94	770	0.238	ug/l #	65
6) Chloroethane	3.118	64	691	0.245	ug/l #	44
11) Tert butyl alcohol	5.518	59	1375	2.473	ug/l #	72
16) Acetone	4.447	43	51975	38.371	ug/l #	84
18) Methyl Acetate	5.053	43	2873	0.718	ug/l #	80
20) Methylene Chloride	5.289	84	8529	1.736	ug/l #	91
25) 2-Butanone	7.506	43	6596	3.478	ug/l #	81
29) Tetrahydrofuran	7.853	42	568	0.478	ug/l #	32
31) Cyclohexane	8.229	56	6819	1.212	ug/l #	23
36) 1,1-Dichloropropene	8.229	75	26444	5.507	ug/l #	51
37) Ethyl Acetate	7.571	43	33125	8.588	ug/l	99
38) Carbon Tetrachloride	8.224	117	36968	6.878	ug/l #	15
42) 1,2-Dichloroethane	8.694	62	1403	0.285	ug/l #	72
43) Isopropyl Acetate	8.694	43	234533	36.860	ug/l #	79
45) 1,2-Dichloropropane	9.747	63	2272	0.630	ug/l #	43
48) Methyl methacrylate	9.676	41	4168	1.454	ug/l #	37
49) 1,4-Dioxane	9.741	88	145	2.058	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	15071	3.917	ug/l #	78
53) t-1,3-Dichloropropene	10.729	75	1427	0.278	ug/l	97
54) cis-1,3-Dichloropropene	10.359	75	70711	12.546	ug/l #	63
56) Ethyl methacrylate	10.982	69	1596	0.317	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	8963	1.443	ug/l #	42
59) 2-Hexanone	11.170	43	157940	56.283	ug/l #	20
71) Bromoform	12.853	173	2017	0.700	ug/l #	1
74) N-amyl acetate	12.488	43	2431	0.502	ug/l #	37
76) 1,2,3-Trichloropropane	12.853	75	115135	25.008	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	115135	90.015	ug/l #	12
93) 1,2,4-Trichlorobenzene	15.400	180	975	0.259	ug/l	94
95) Naphthalene	15.641	128	4415	2.517	ug/l #	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quant Time: Jan 16 01:06:07 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N121422W.M
Quant Title : SW846 8260
QLast Update : Wed Dec 14 13:03:41 2022
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.229 min Scan# 1

Delta R.T. -0.001 min

Lab File: VN076242.D

Acq: 13 Jan 2023 12:38

Instrument :

MSVOA_N

ClientSampleId :

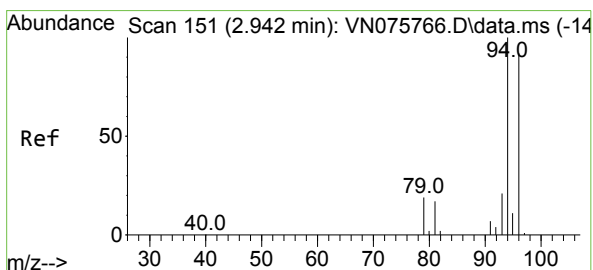
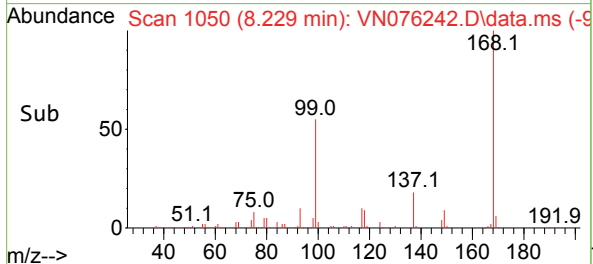
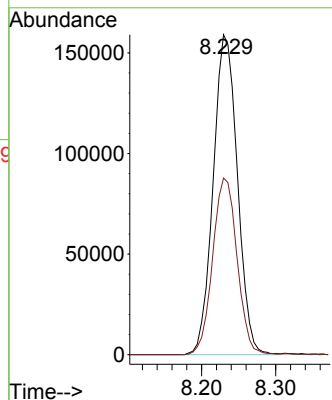
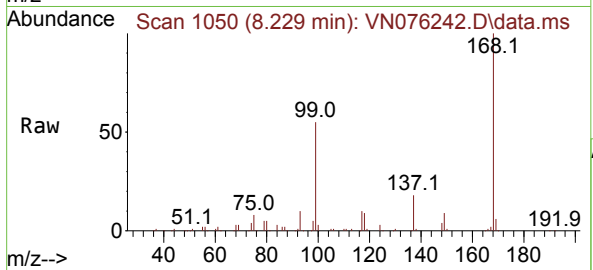
TP-C

Tgt Ion:168 Resp: 361193

Ion Ratio Lower Upper

168 100

99 55.2 44.2 66.4



#5

Bromomethane

Concen: 0.238 ug/l

RT: 2.953 min Scan# 153

Delta R.T. 0.012 min

Lab File: VN076242.D

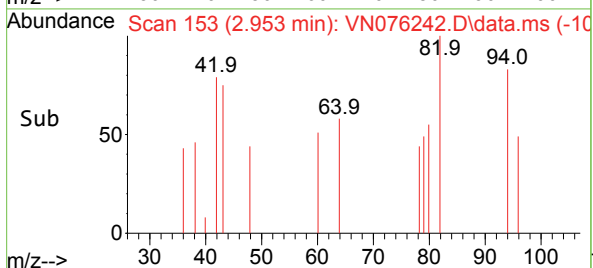
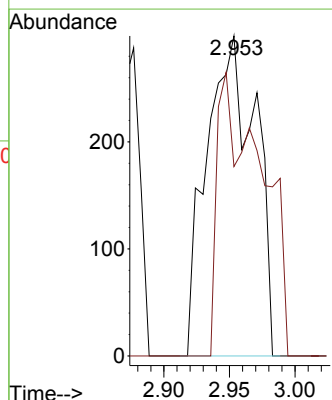
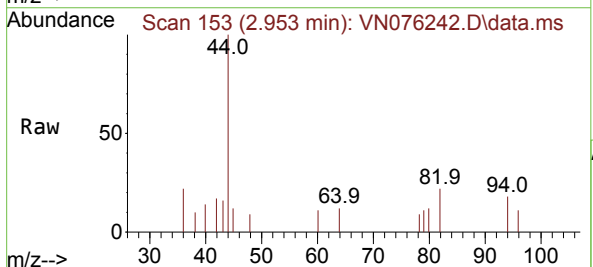
Acq: 13 Jan 2023 12:38

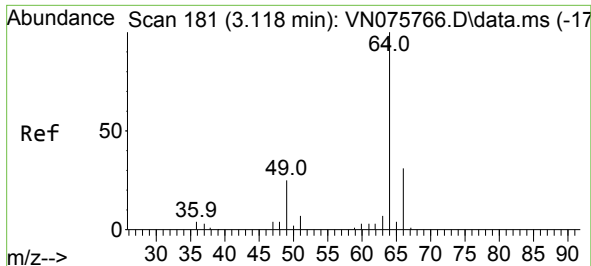
Tgt Ion: 94 Resp: 770

Ion Ratio Lower Upper

94 100

96 59.2 73.8 110.6#

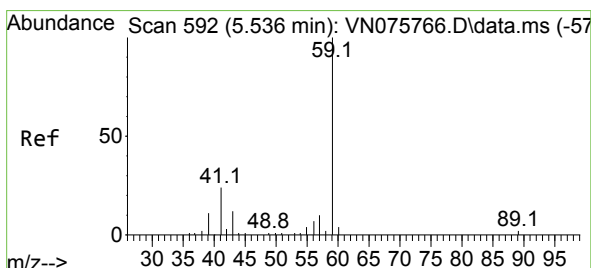
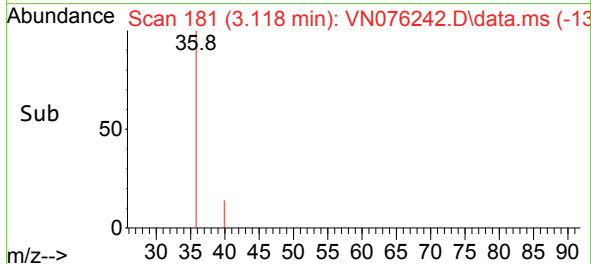
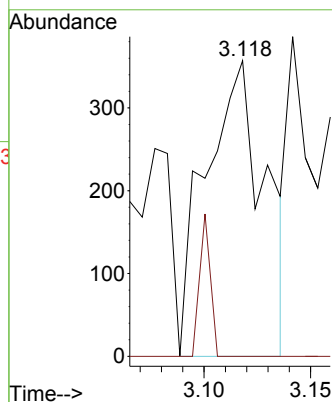
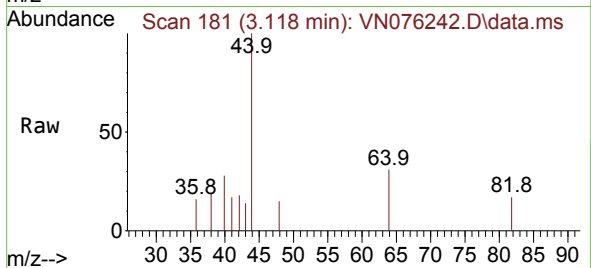




#6
Chloroethane
Concen: 0.245 ug/l
RT: 3.118 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN076242.D
Acq: 13 Jan 2023 12:38

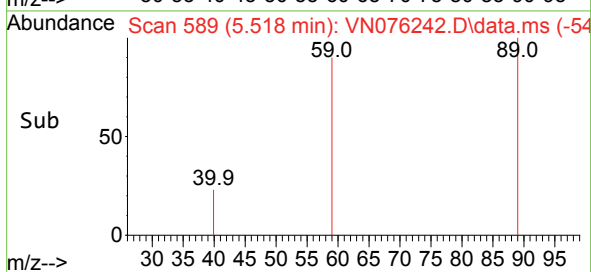
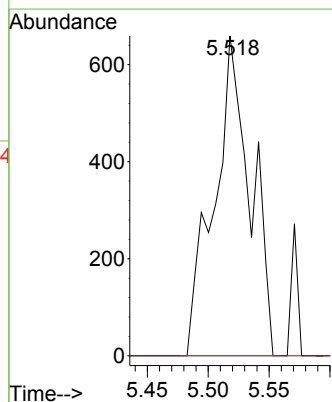
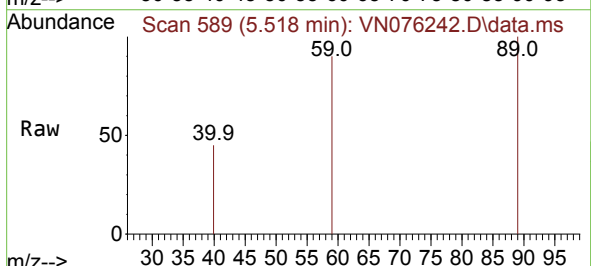
Instrument :
MSVOA_N
ClientSampleId :
TP-C

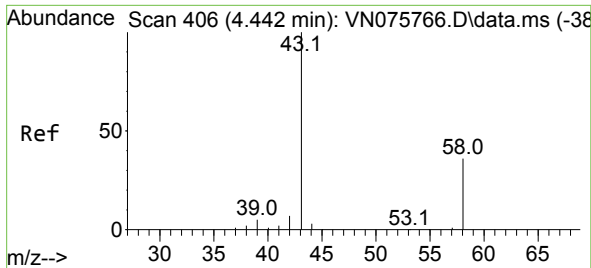
Tgt Ion: 64 Resp: 691
Ion Ratio Lower Upper
64 100
66 0.0 24.6 36.8#



#11
Tert butyl alcohol
Concen: 2.473 ug/l
RT: 5.518 min Scan# 589
Delta R.T. -0.018 min
Lab File: VN076242.D
Acq: 13 Jan 2023 12:38

Tgt Ion: 59 Resp: 1375
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

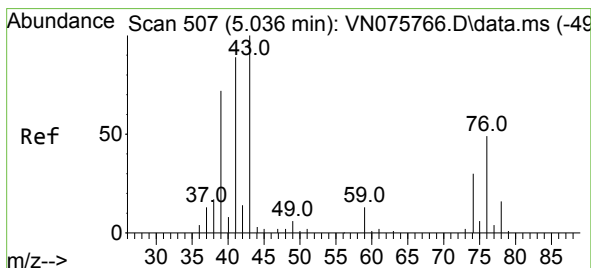
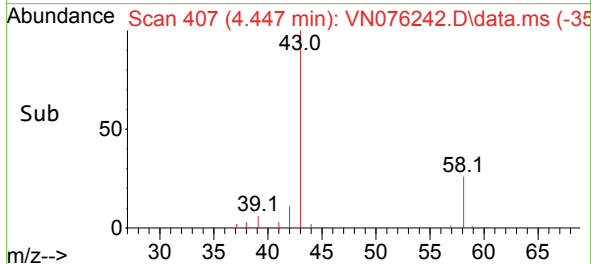
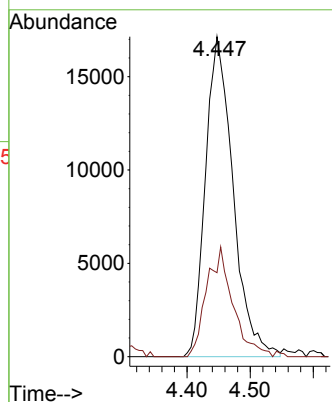
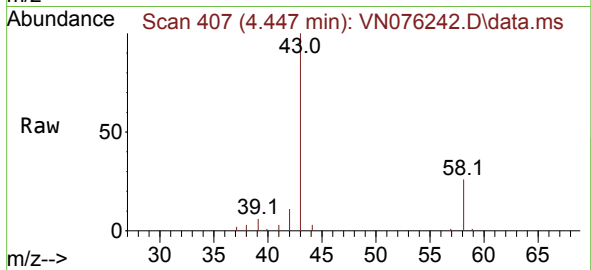




#16
Acetone
Concen: 38.371 ug/l
RT: 4.447 min Scan# 406
Delta R.T. 0.006 min
Lab File: VN076242.D
Acq: 13 Jan 2023 12:38

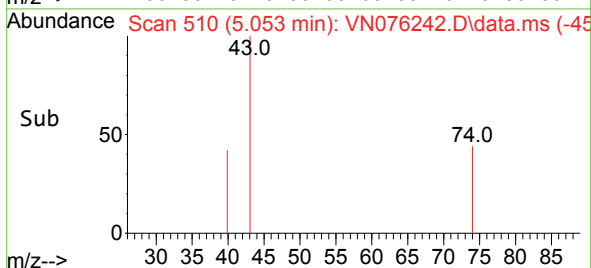
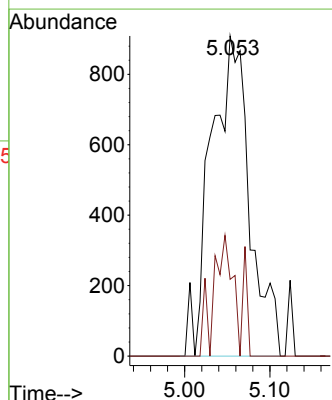
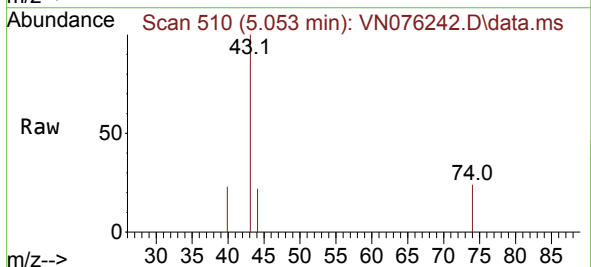
Instrument :
MSVOA_N
ClientSampleId :
TP-C

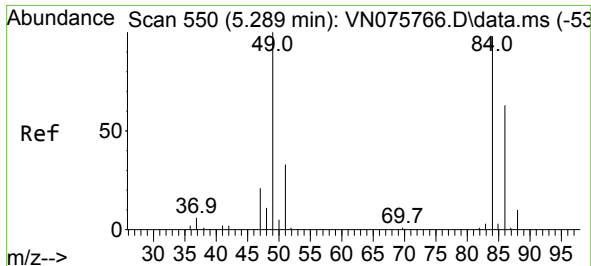
Tgt Ion: 43 Resp: 51975
Ion Ratio Lower Upper
43 100
58 26.2 28.6 43.0#



#18
Methyl Acetate
Concen: 0.718 ug/l
RT: 5.053 min Scan# 510
Delta R.T. 0.018 min
Lab File: VN076242.D
Acq: 13 Jan 2023 12:38

Tgt Ion: 43 Resp: 2873
Ion Ratio Lower Upper
43 100
74 18.8 23.6 35.4#

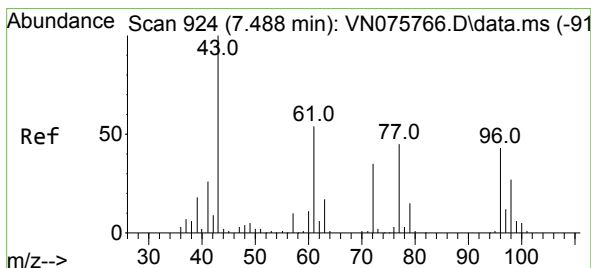
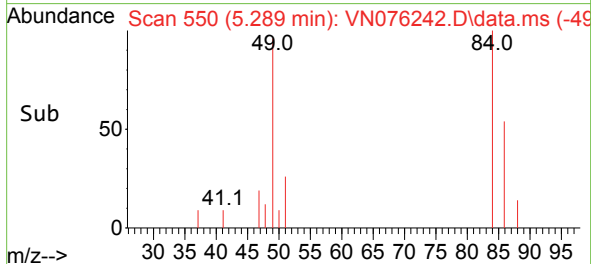
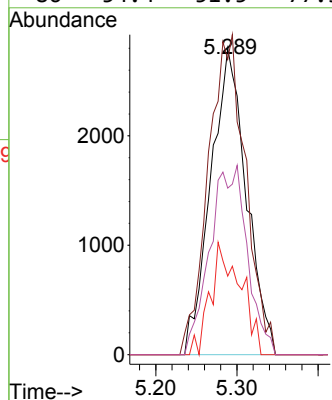
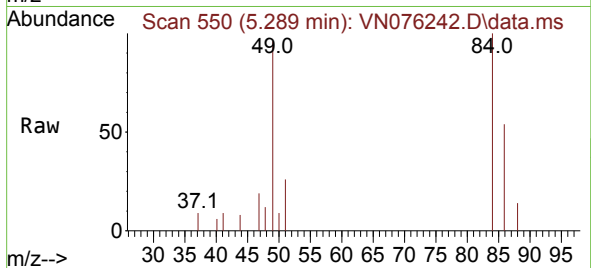




#20
Methylene Chloride
Concen: 1.736 ug/l
RT: 5.289 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN076242.D
Acq: 13 Jan 2023 12:38

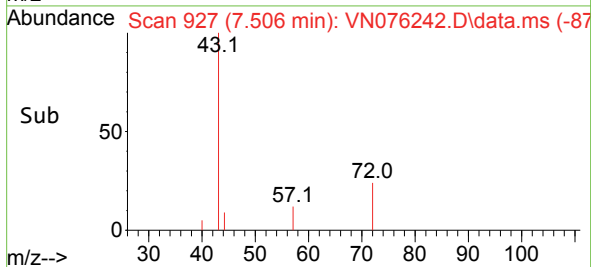
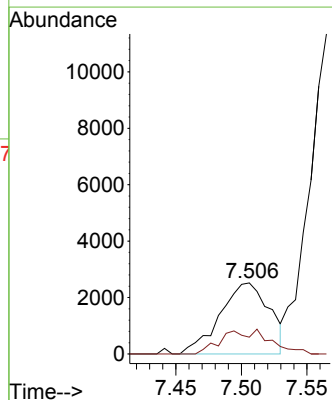
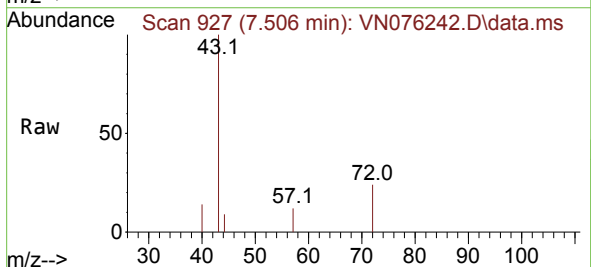
Instrument :
MSVOA_N
ClientSampleId :
TP-C

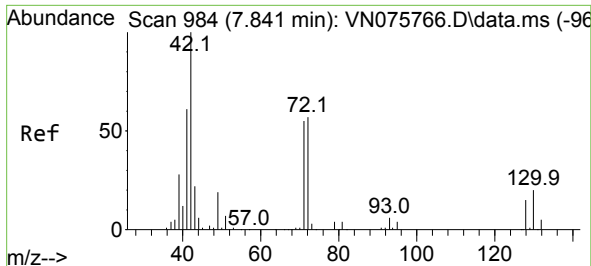
Tgt Ion: 84	Resp: 8529
Ion Ratio	Lower Upper
84 100	
49 96.4	81.8 122.6
51 25.6	26.7 40.1#
86 54.4	51.5 77.3



#25
2-Butanone
Concen: 3.478 ug/l
RT: 7.506 min Scan# 927
Delta R.T. 0.018 min
Lab File: VN076242.D
Acq: 13 Jan 2023 12:38

Tgt Ion: 43	Resp:	6596	
Ion	Ratio	Lower	Upper
43	100		
72	23.7	28.0	42.0#





#29

Tetrahydrofuran

Concen: 0.478 ug/l

RT: 7.853 min Scan# 91

Delta R.T. 0.012 min

Lab File: VN076242.D

Acq: 13 Jan 2023 12:38

Instrument :

MSVOA_N

ClientSampleId :

TP-C

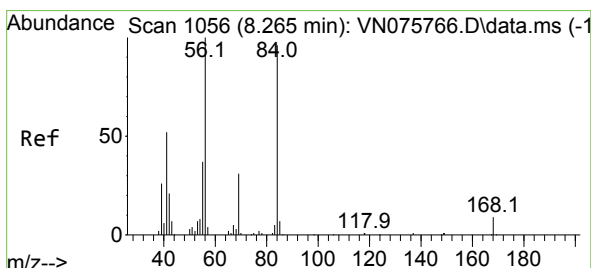
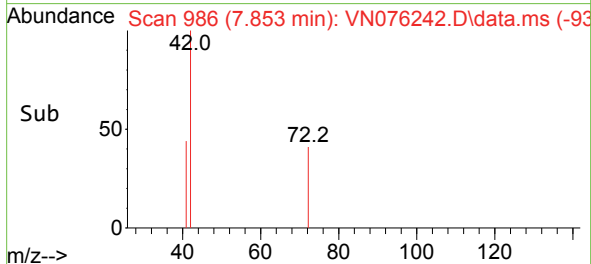
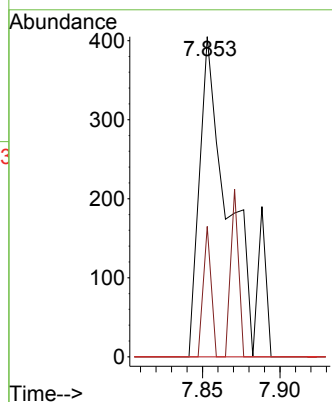
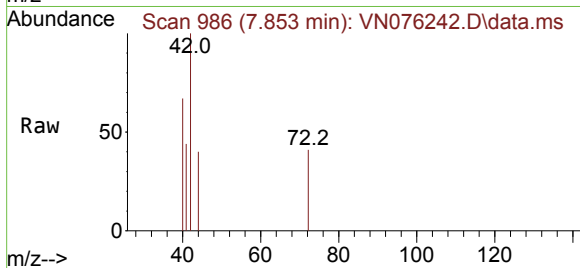
Tgt Ion: 42 Resp: 568

Ion Ratio Lower Upper

42 100

72 10.2 44.5 66.7#

71 0.0 41.0 61.6#



#31

Cyclohexane

Concen: 1.212 ug/l

RT: 8.229 min Scan# 1050

Delta R.T. -0.035 min

Lab File: VN076242.D

Acq: 13 Jan 2023 12:38

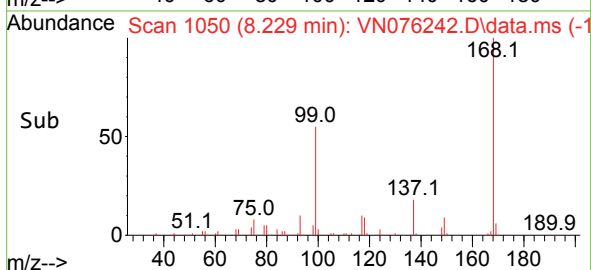
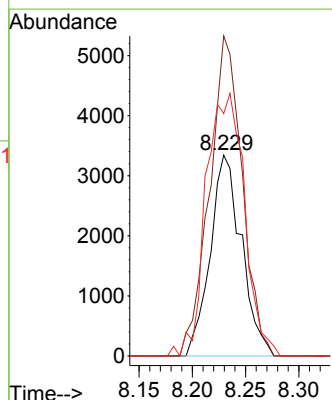
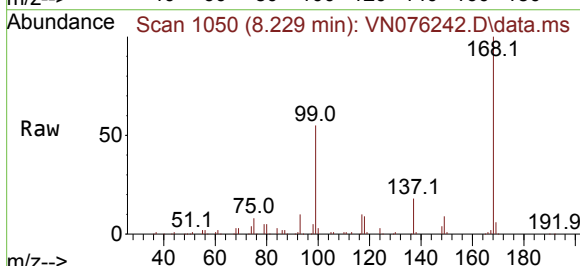
Tgt Ion: 56 Resp: 6819

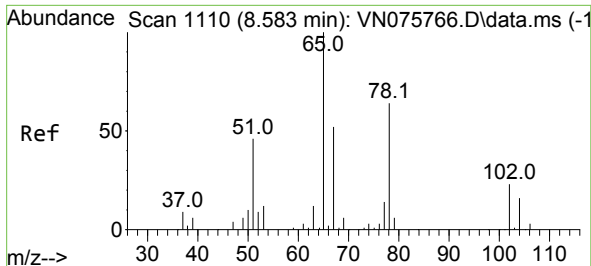
Ion Ratio Lower Upper

56 100

69 159.3 24.7 37.1#

84 120.7 76.5 114.7#





#33

1,2-Dichloroethane-d4

Concen: 50.841 ug/l

RT: 8.582 min Scan# 1110

Delta R.T. -0.000 min

Lab File: VN076242.D

Acq: 13 Jan 2023 12:38

Instrument :

MSVOA_N

ClientSampleId :

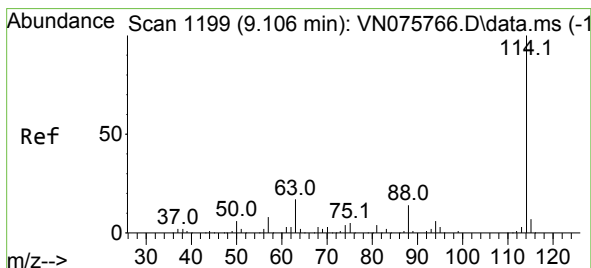
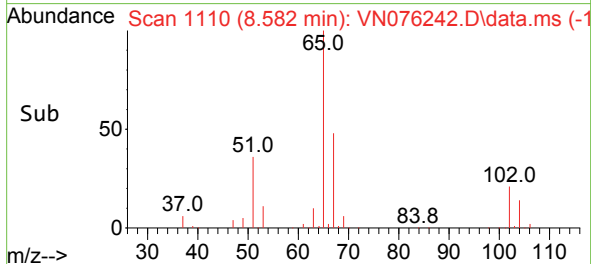
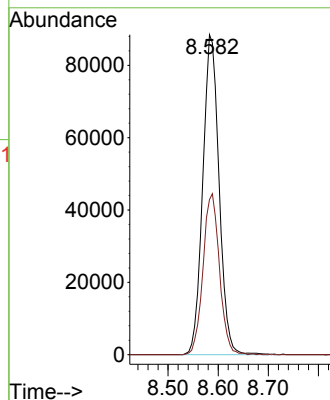
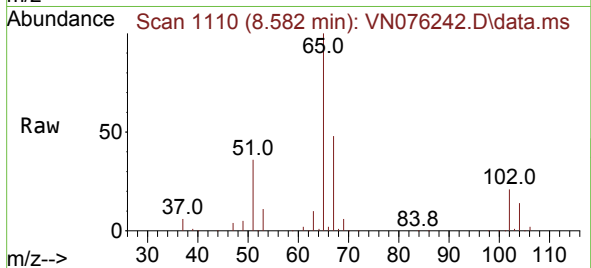
TP-C

Tgt Ion: 65 Resp: 199777

Ion Ratio Lower Upper

65 100

67 50.7 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. -0.000 min

Lab File: VN076242.D

Acq: 13 Jan 2023 12:38

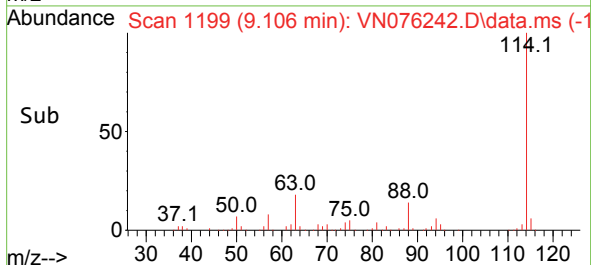
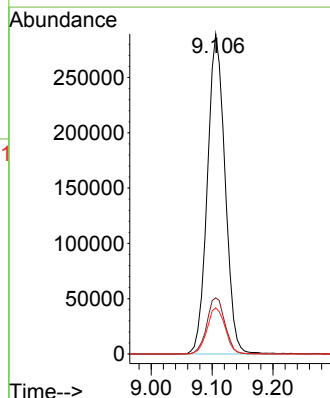
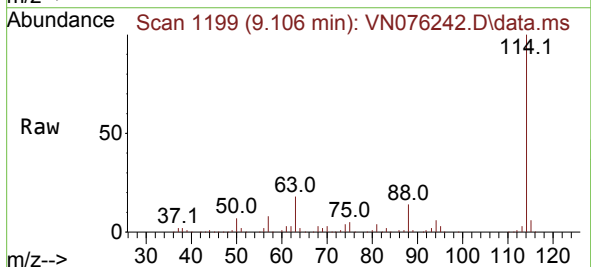
Tgt Ion: 114 Resp: 583725

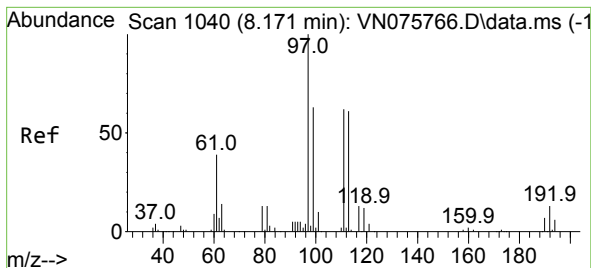
Ion Ratio Lower Upper

114 100

63 17.5 0.0 34.4

88 14.4 0.0 28.8





#35

Dibromofluoromethane

Concen: 48.426 ug/l

RT: 8.171 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VN076242.D

Acq: 13 Jan 2023 12:38

Instrument :

MSVOA_N

ClientSampleId :

TP-C

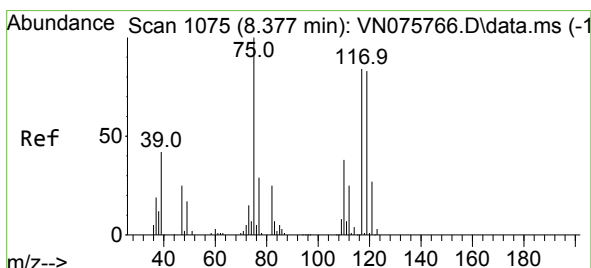
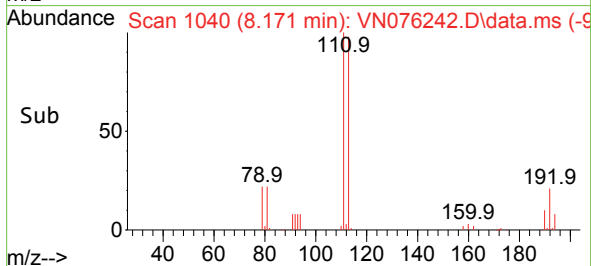
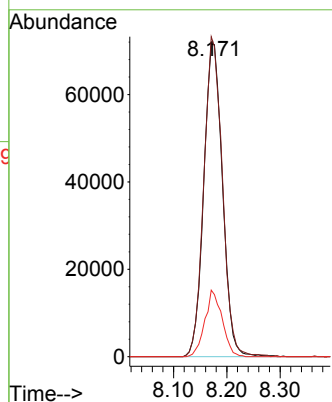
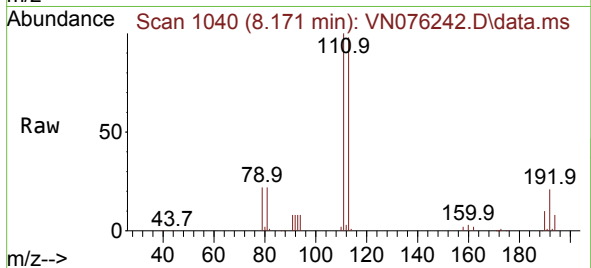
Tgt Ion:113 Resp: 175056

Ion Ratio Lower Upper

113 100

111 101.1 83.4 125.2

192 19.6 16.1 24.1



#36

1,1-Dichloropropene

Concen: 5.507 ug/l

RT: 8.229 min Scan# 1050

Delta R.T. -0.147 min

Lab File: VN076242.D

Acq: 13 Jan 2023 12:38

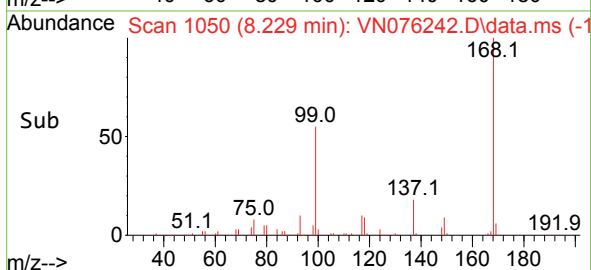
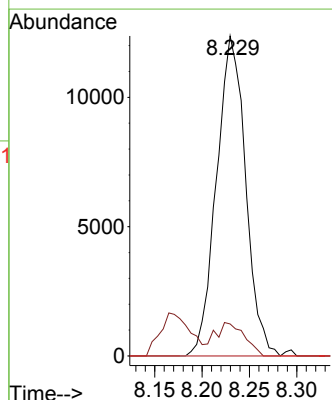
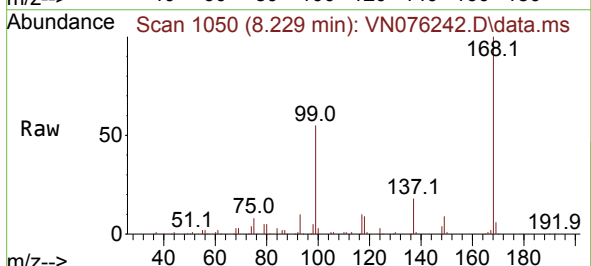
Tgt Ion: 75 Resp: 26444

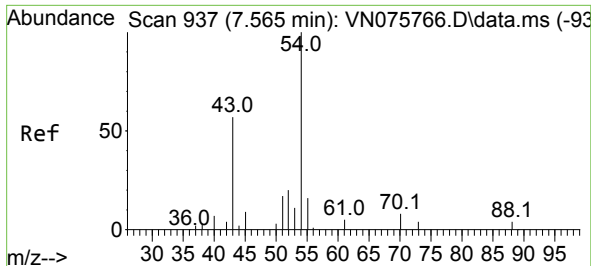
Ion Ratio Lower Upper

75 100

110 10.8 18.8 56.4#

77 0.0 24.1 36.1#

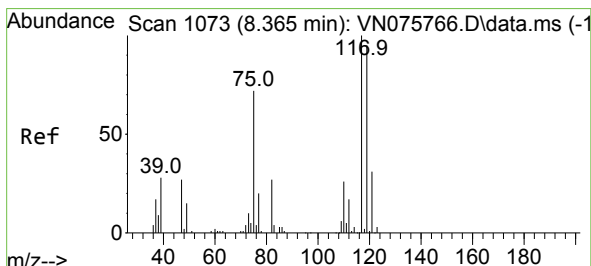
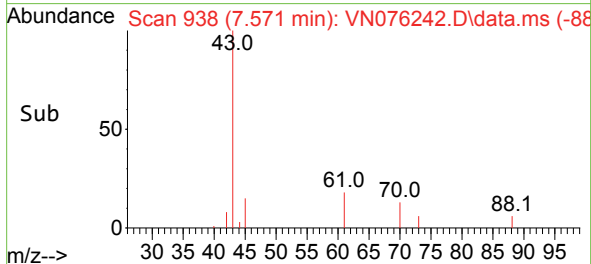
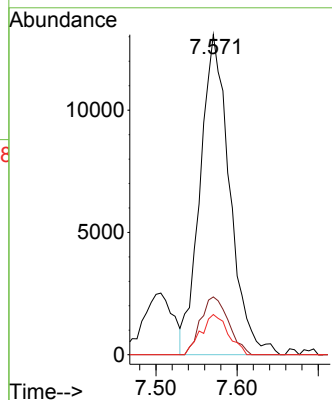
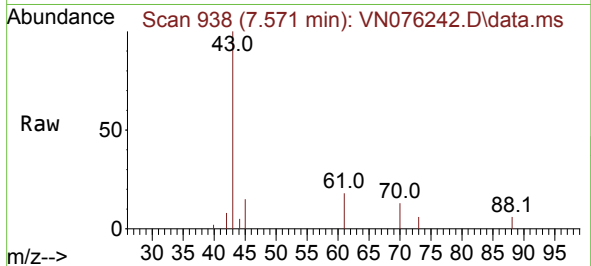




#37
Ethyl Acetate
Concen: 8.588 ug/l
RT: 7.571 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN076242.D
Acq: 13 Jan 2023 12:38

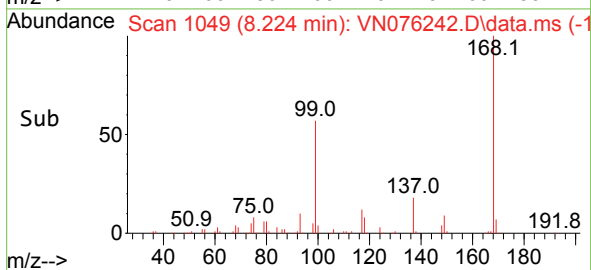
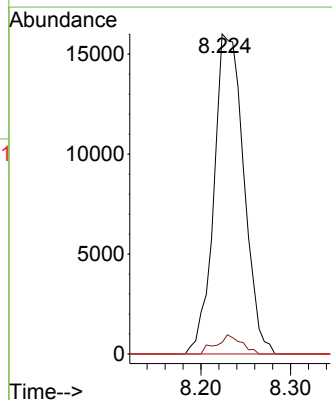
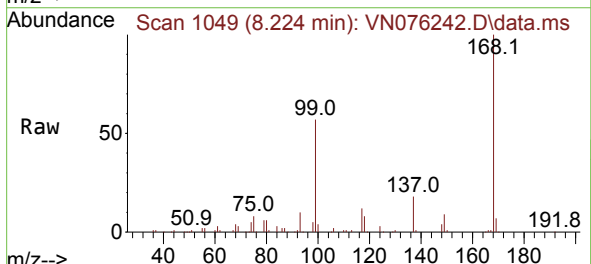
Instrument :
MSVOA_N
ClientSampleId :
TP-C

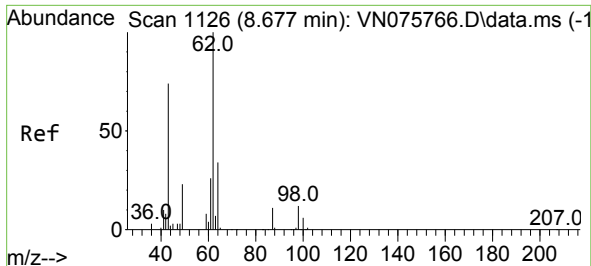
Tgt Ion: 43 Resp: 33125
Ion Ratio Lower Upper
43 100
61 17.0 13.0 19.4
70 11.6 9.4 14.0



#38
Carbon Tetrachloride
Concen: 6.878 ug/l
RT: 8.224 min Scan# 1049
Delta R.T. -0.141 min
Lab File: VN076242.D
Acq: 13 Jan 2023 12:38

Tgt Ion: 117 Resp: 36968
Ion Ratio Lower Upper
117 100
119 3.6 76.1 114.1#
121 0.0 24.5 36.7#





#42

1,2-Dichloroethane

Concen: 0.285 ug/l

RT: 8.694 min Scan# 1129

Delta R.T. 0.018 min

Lab File: VN076242.D

Acq: 13 Jan 2023 12:38

Instrument :

MSVOA_N

ClientSampleId :

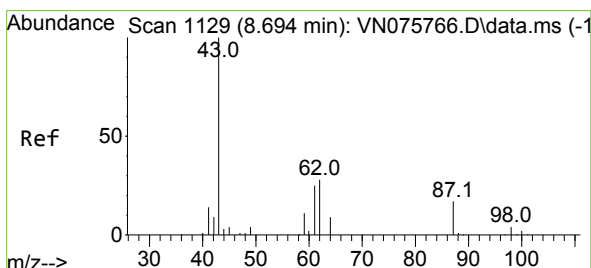
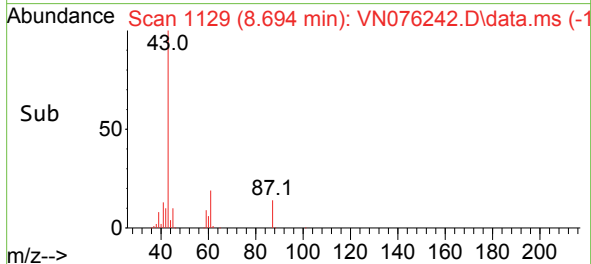
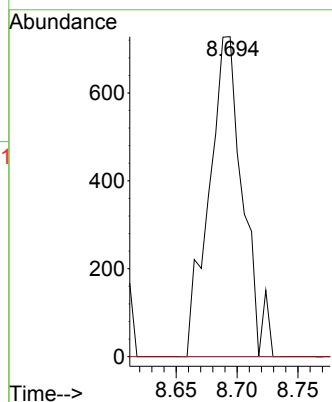
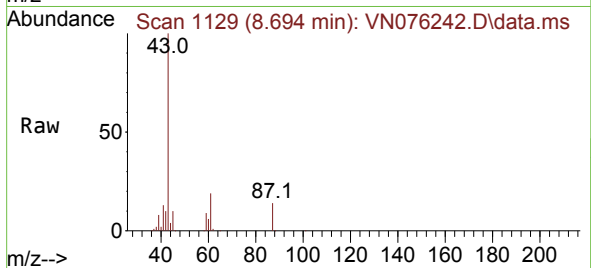
TP-C

Tgt Ion: 62 Resp: 1403

Ion Ratio Lower Upper

62 100

98 0.0 0.0 20.8



#43

Isopropyl Acetate

Concen: 36.860 ug/l

RT: 8.694 min Scan# 1129

Delta R.T. -0.000 min

Lab File: VN076242.D

Acq: 13 Jan 2023 12:38

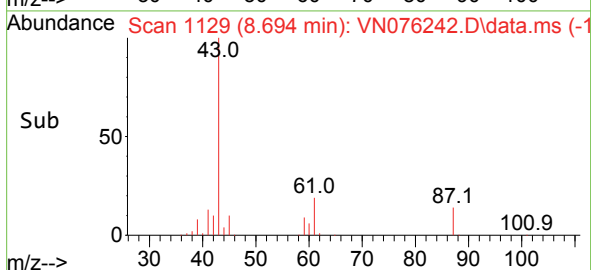
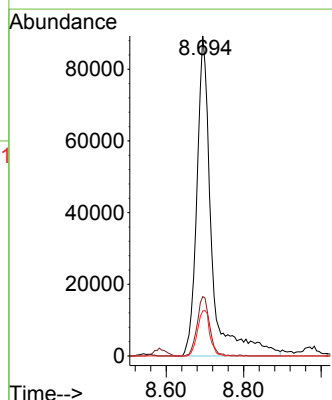
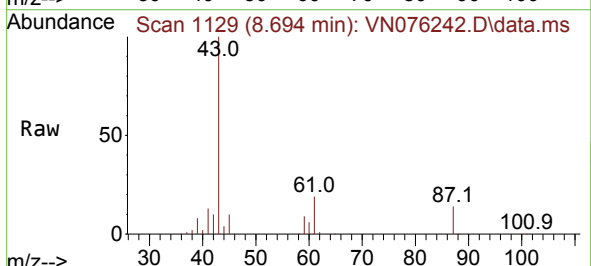
Tgt Ion: 43 Resp: 234533

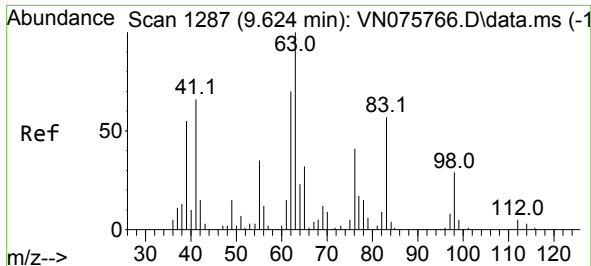
Ion Ratio Lower Upper

43 100

61 15.7 24.2 36.4#

87 11.9 13.3 19.9#





#45

1,2-Dichloropropane

Concen: 0.630 ug/l

RT: 9.747 min Scan# 11

Delta R.T. 0.123 min

Lab File: VN076242.D

Acq: 13 Jan 2023 12:38

Instrument :

MSVOA_N

ClientSampleId :

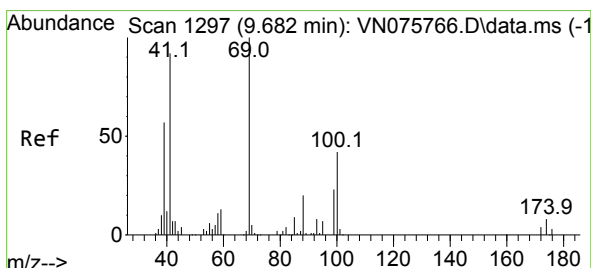
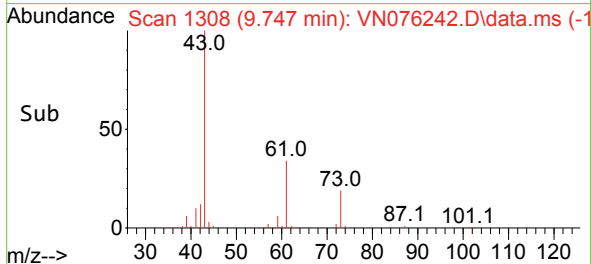
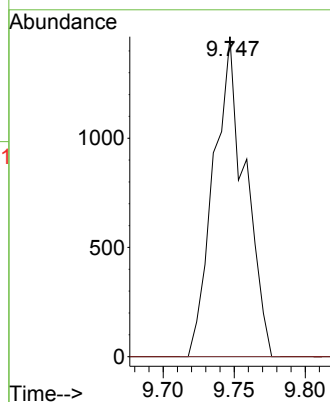
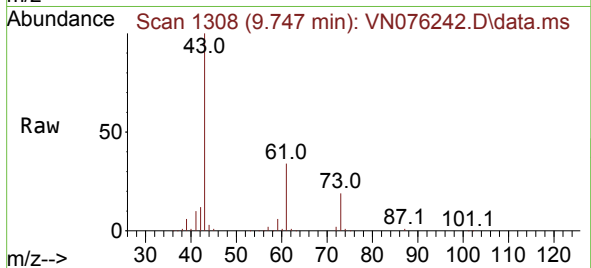
TP-C

Tgt Ion: 63 Resp: 2272

Ion Ratio Lower Upper

63 100

65 0.0 25.7 38.5#



#48

Methyl methacrylate

Concen: 1.454 ug/l

RT: 9.676 min Scan# 1296

Delta R.T. -0.006 min

Lab File: VN076242.D

Acq: 13 Jan 2023 12:38

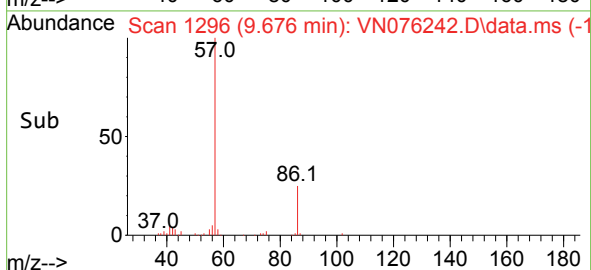
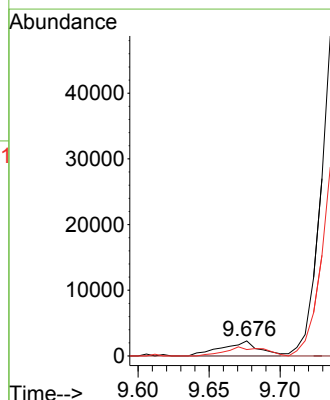
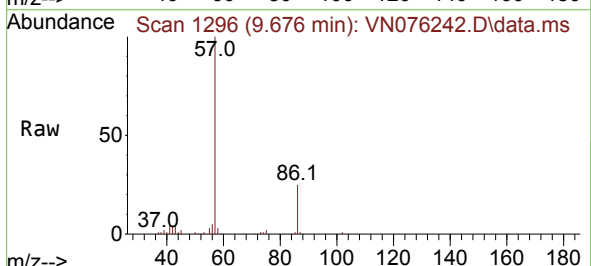
Tgt Ion: 41 Resp: 4168

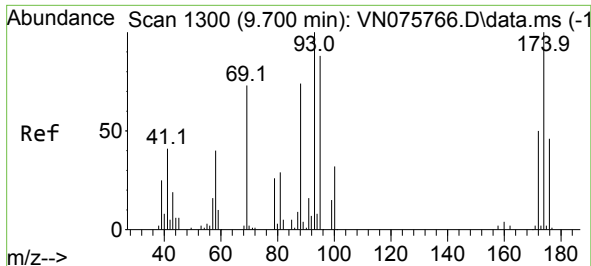
Ion Ratio Lower Upper

41 100

69 0.0 81.9 122.9#

39 63.2 51.6 77.4





#49

1,4-Dioxane

Concen: 2.058 ug/l

RT: 9.741 min Scan# 1307

Delta R.T. 0.041 min

Lab File: VN076242.D

Acq: 13 Jan 2023 12:38

Instrument :

MSVOA_N

ClientSampleId :

TP-C

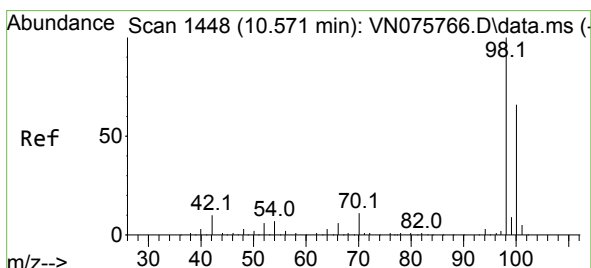
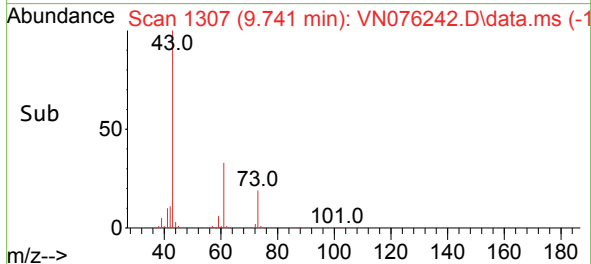
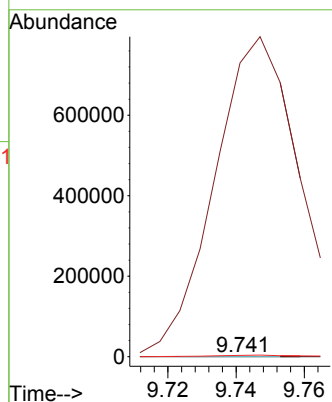
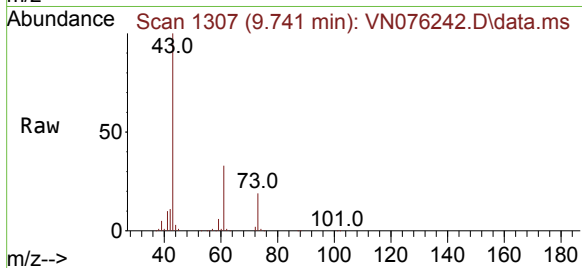
Tgt Ion: 88 Resp: 145

Ion Ratio Lower Upper

88 100

43 984633.8 17.1 25.7#

58 4884.8 47.8 71.8#



#50

Toluene-d8

Concen: 50.954 ug/l

RT: 10.571 min Scan# 1448

Delta R.T. -0.000 min

Lab File: VN076242.D

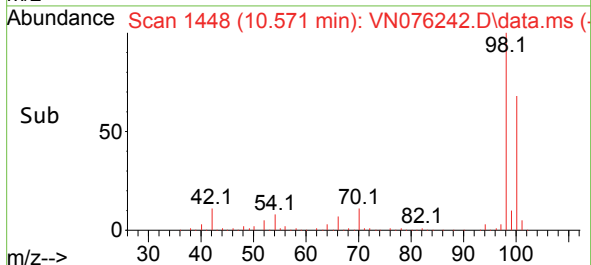
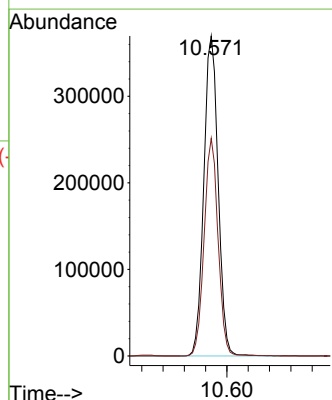
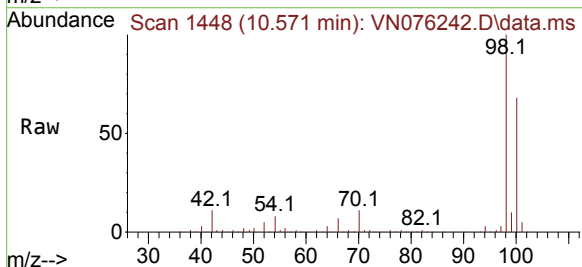
Acq: 13 Jan 2023 12:38

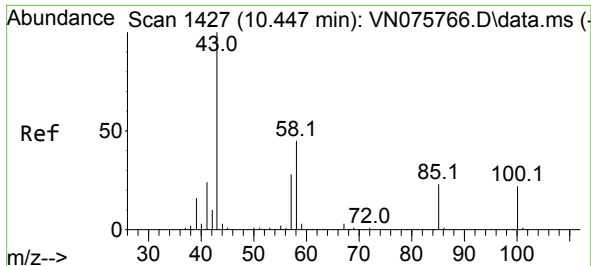
Tgt Ion: 98 Resp: 688688

Ion Ratio Lower Upper

98 100

100 66.2 52.1 78.1





#51

4-Methyl-2-Pentanone

Concen: 3.917 ug/l

RT: 10.453 min Scan# 1427

Delta R.T. 0.006 min

Lab File: VN076242.D

Acq: 13 Jan 2023 12:38

Instrument :

MSVOA_N

ClientSampleId :

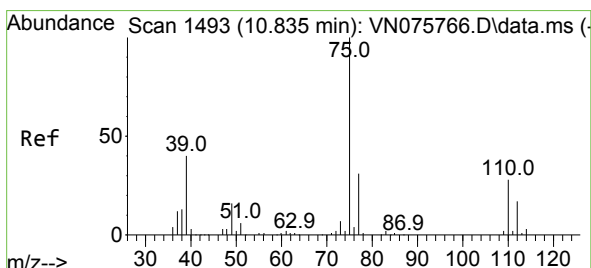
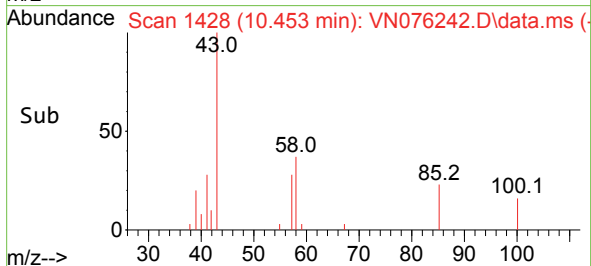
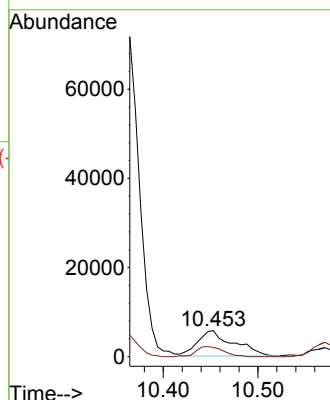
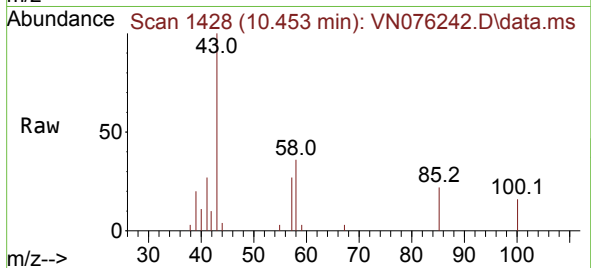
TP-C

Tgt Ion: 43 Resp: 15071

Ion Ratio Lower Upper

43 100

58 30.1 35.5 53.3#



#53

t-1,3-Dichloropropene

Concen: 0.278 ug/l

RT: 10.729 min Scan# 1475

Delta R.T. -0.106 min

Lab File: VN076242.D

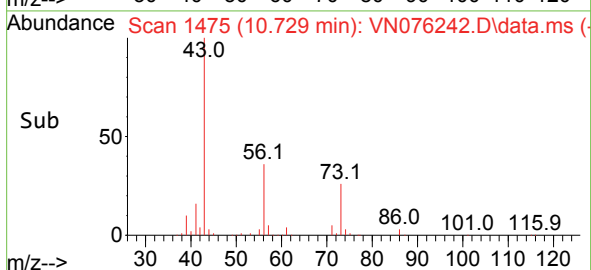
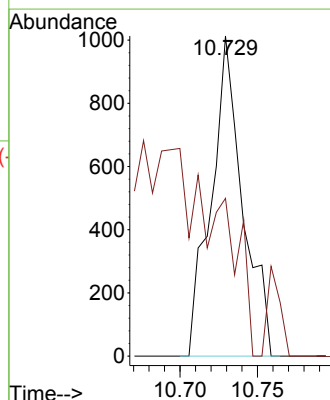
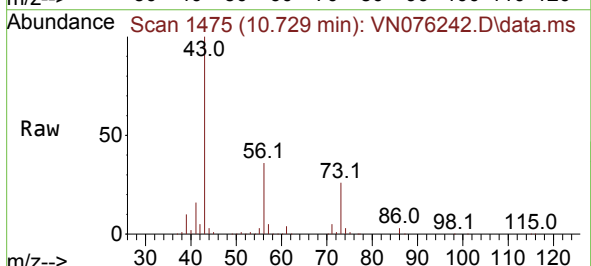
Acq: 13 Jan 2023 12:38

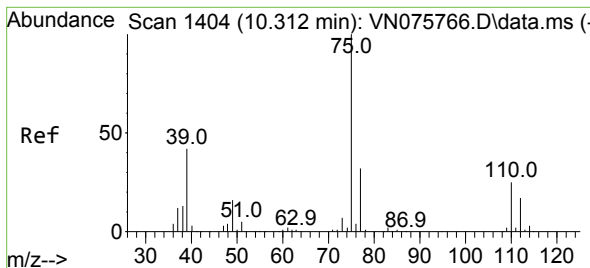
Tgt Ion: 75 Resp: 1427

Ion Ratio Lower Upper

75 100

77 32.6 24.9 37.3

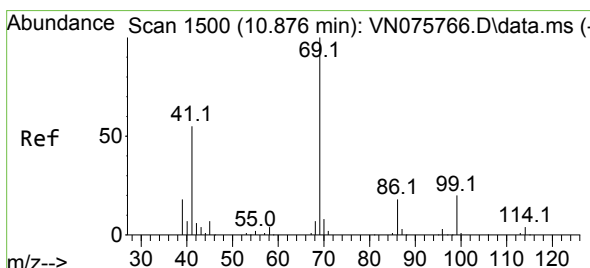
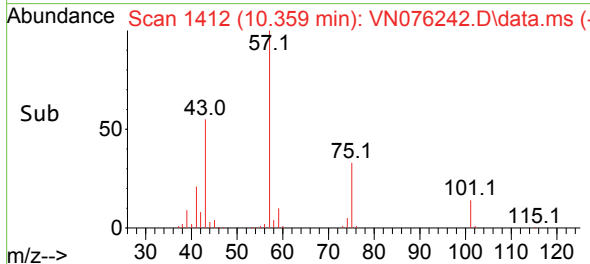
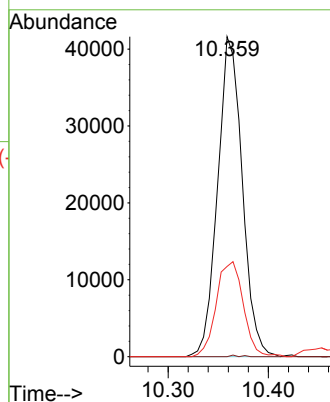
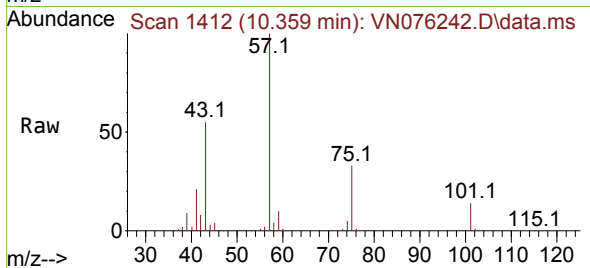




#54
 cis-1,3-Dichloropropene
 Concen: 12.546 ug/l
 RT: 10.359 min Scan# 1412
 Delta R.T. 0.047 min
 Lab File: VN076242.D
 Acq: 13 Jan 2023 12:38

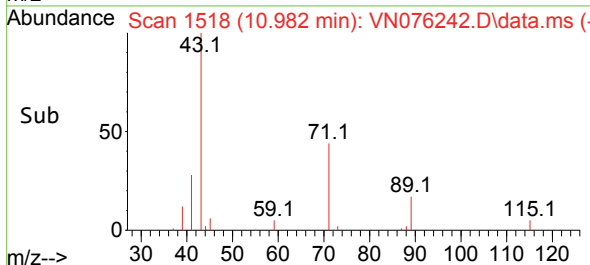
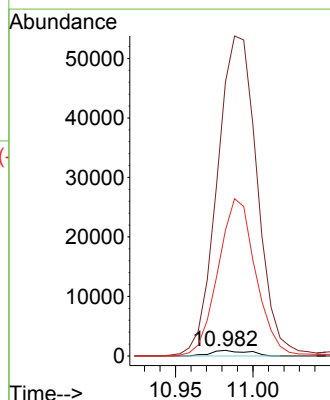
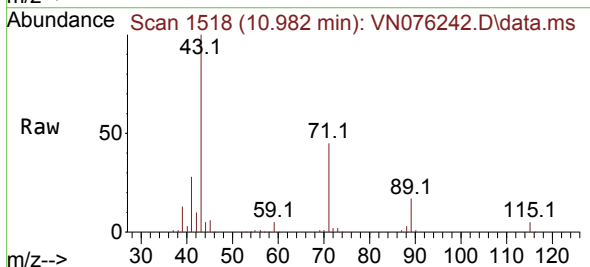
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-C

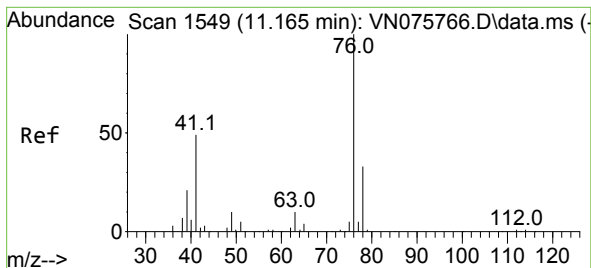
Tgt Ion: 75 Resp: 70711
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.8 38.8#
 39 28.2 33.4 50.2#



#56
 Ethyl methacrylate
 Concen: 0.317 ug/l
 RT: 10.982 min Scan# 1518
 Delta R.T. 0.106 min
 Lab File: VN076242.D
 Acq: 13 Jan 2023 12:38

Tgt Ion: 69 Resp: 1596
 Ion Ratio Lower Upper
 69 100
 41 6062.2 44.2 66.4#
 39 2816.7 26.4 39.6#





#57

1,3-Dichloropropane

Concen: 1.443 ug/l

RT: 11.206 min Scan# 11

Delta R.T. 0.041 min

Lab File: VN076242.D

Acq: 13 Jan 2023 12:38

Instrument :

MSVOA_N

ClientSampleId :

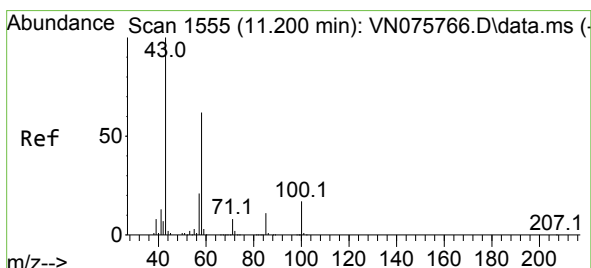
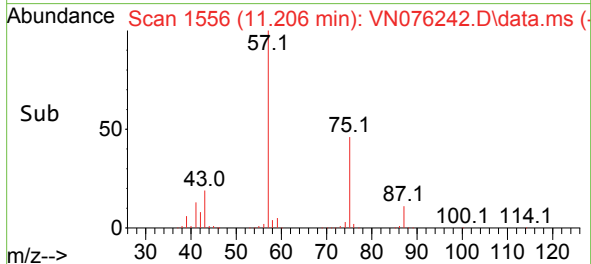
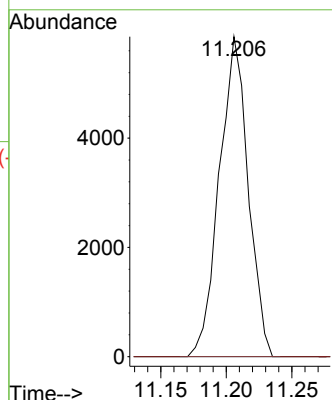
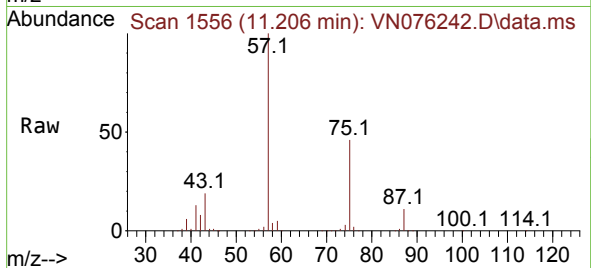
TP-C

Tgt Ion: 76 Resp: 8963

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.2#



#59

2-Hexanone

Concen: 56.283 ug/l

RT: 11.170 min Scan# 1550

Delta R.T. -0.030 min

Lab File: VN076242.D

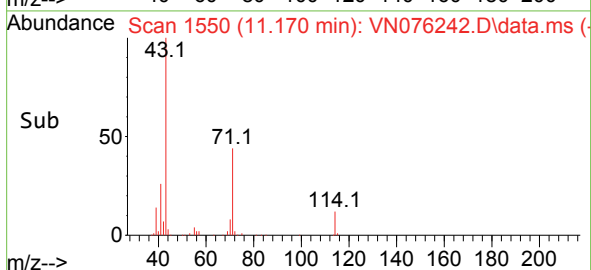
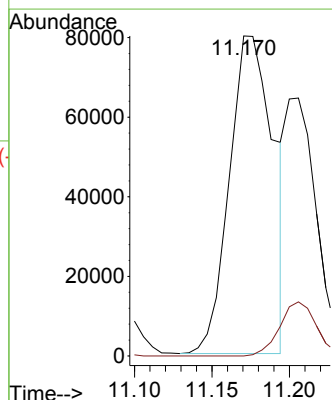
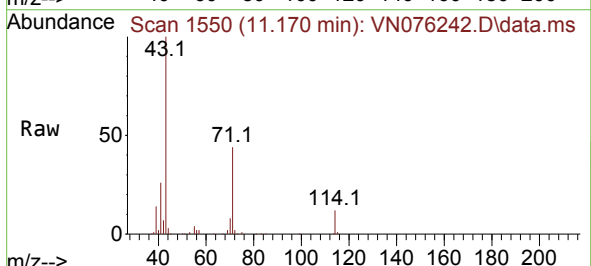
Acq: 13 Jan 2023 12:38

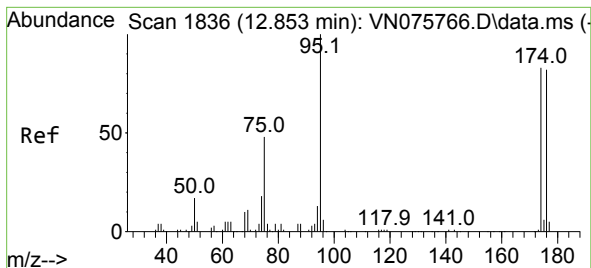
Tgt Ion: 43 Resp: 157940

Ion Ratio Lower Upper

43 100

58 0.0 30.6 92.0#

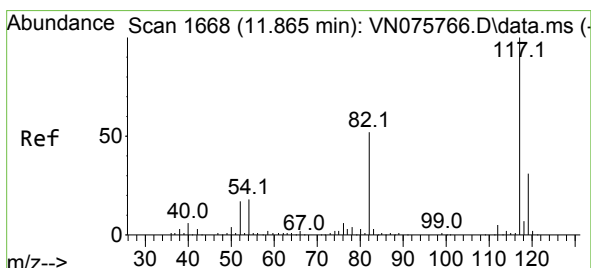
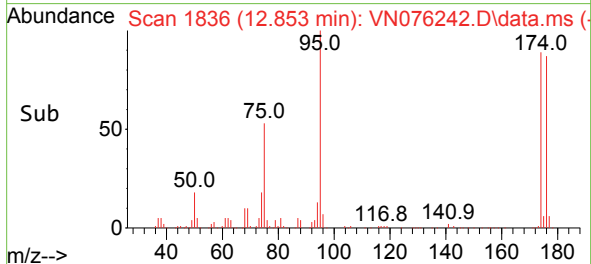
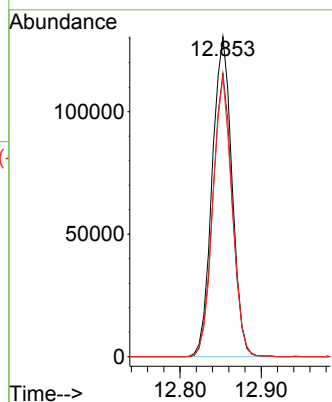
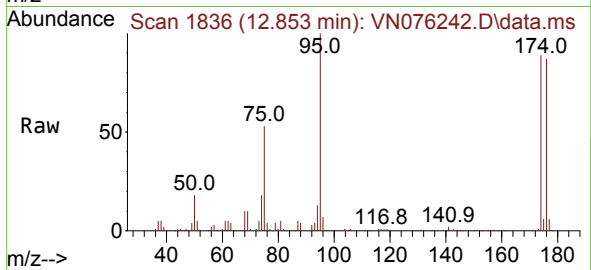




#62
4-Bromofluorobenzene
Concen: 49.422 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.000 min
Lab File: VN076242.D
Acq: 13 Jan 2023 12:38

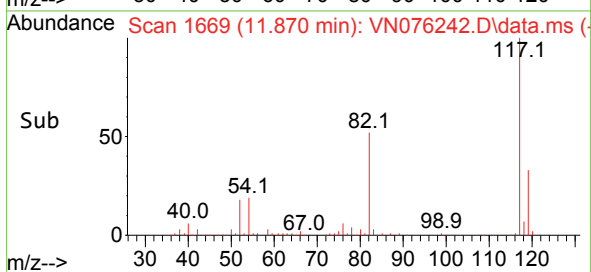
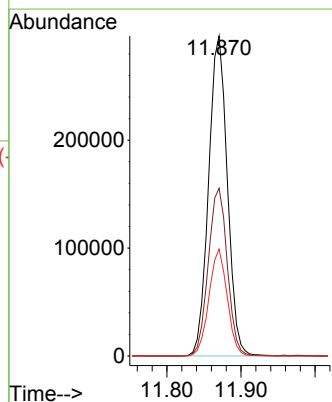
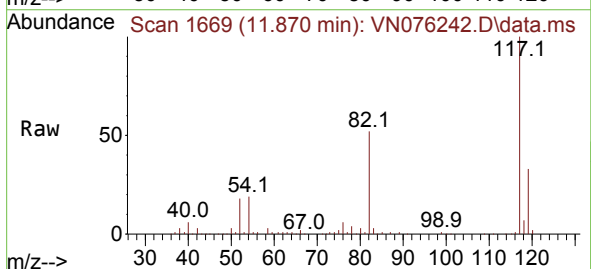
Instrument :
MSVOA_N
ClientSampleId :
TP-C

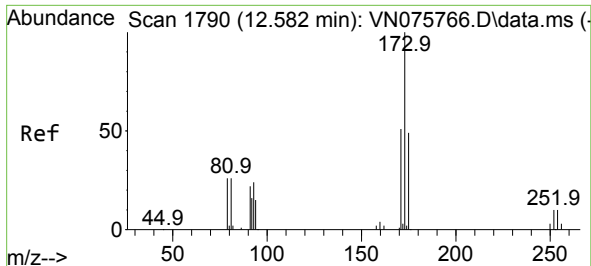
Tgt Ion: 95 Resp: 221243
Ion Ratio Lower Upper
95 100
174 86.6 0.0 171.6
176 84.3 0.0 169.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1669
Delta R.T. 0.006 min
Lab File: VN076242.D
Acq: 13 Jan 2023 12:38

Tgt Ion: 117 Resp: 520568
Ion Ratio Lower Upper
117 100
82 52.4 41.3 61.9
119 33.4 24.6 37.0

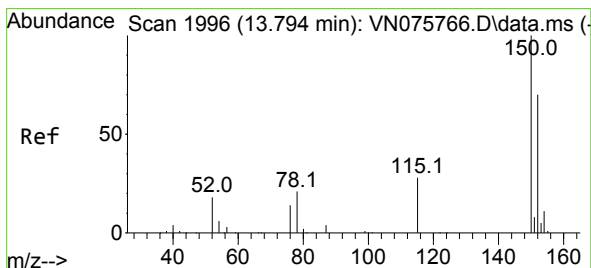
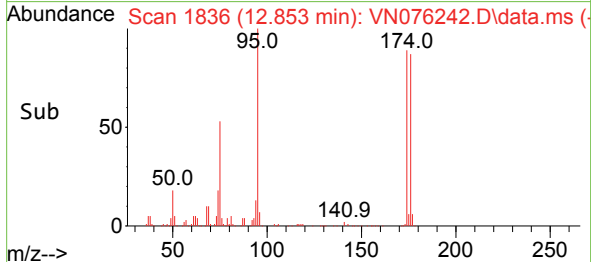
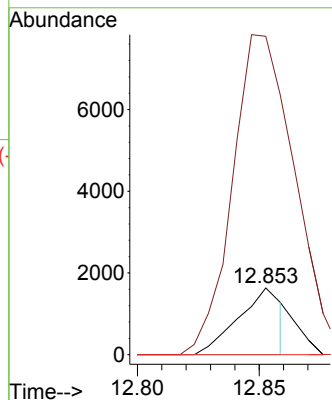
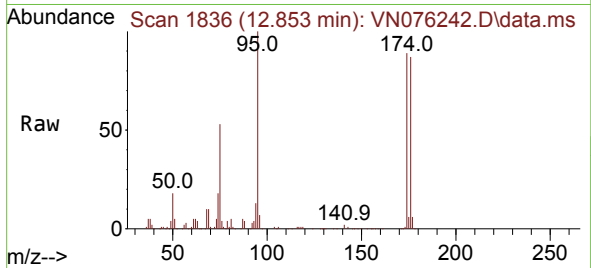




#71
Bromoform
Concen: 0.700 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.270 min
Lab File: VN076242.D
Acq: 13 Jan 2023 12:38

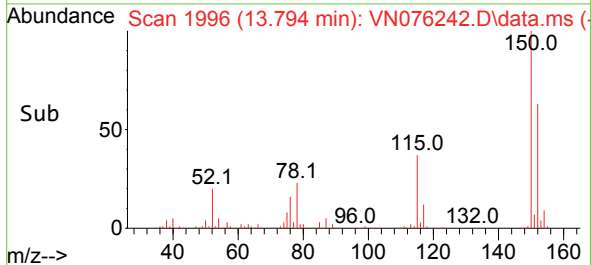
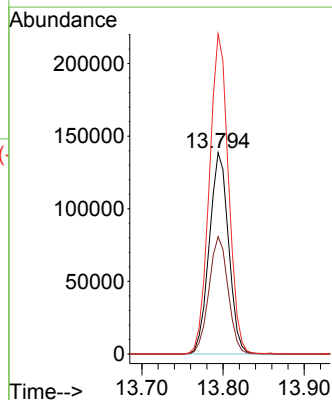
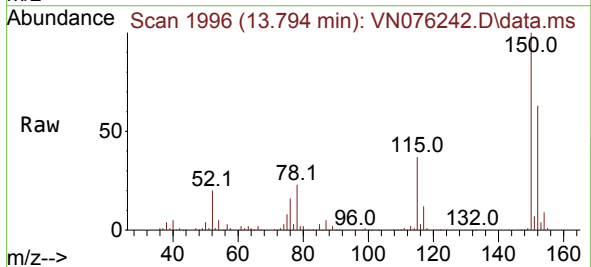
Instrument :
MSVOA_N
ClientSampleId :
TP-C

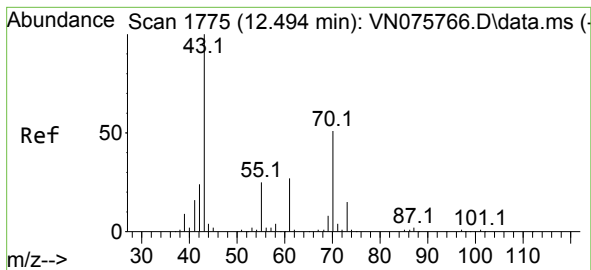
Tgt Ion:173 Resp: 2017
Ion Ratio Lower Upper
173 100
175 537.9 24.3 72.8#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 1996
Delta R.T. -0.000 min
Lab File: VN076242.D
Acq: 13 Jan 2023 12:38

Tgt Ion:152 Resp: 228401
Ion Ratio Lower Upper
152 100
115 57.9 29.1 87.4
150 157.9 0.0 347.0

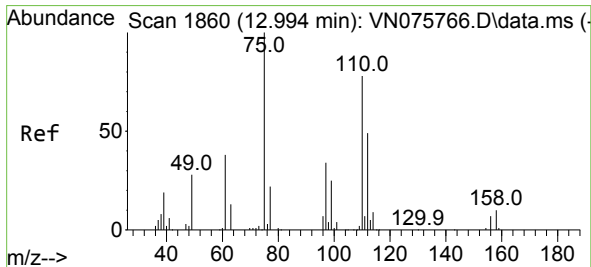
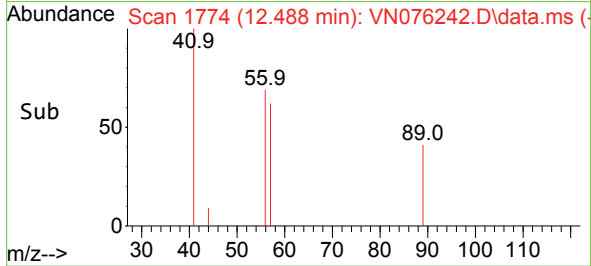
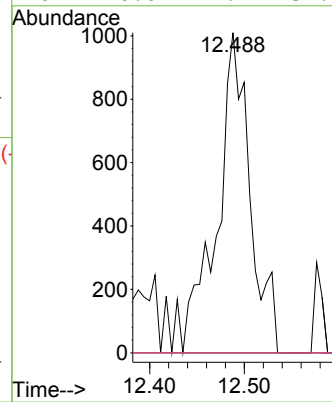
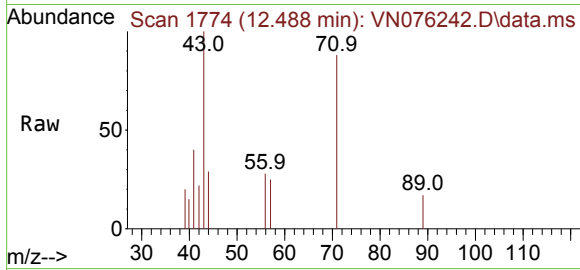




#74
N-amy1 acetate
Concen: 0.502 ug/l
RT: 12.488 min Scan# 1774
Delta R.T. -0.006 min
Lab File: VN076242.D
Acq: 13 Jan 2023 12:38

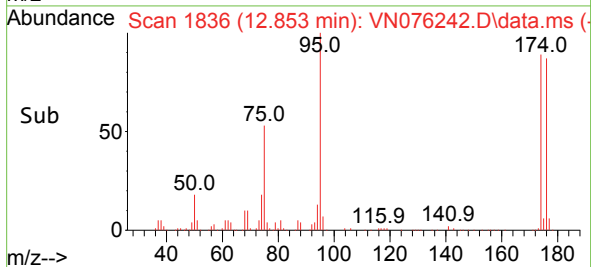
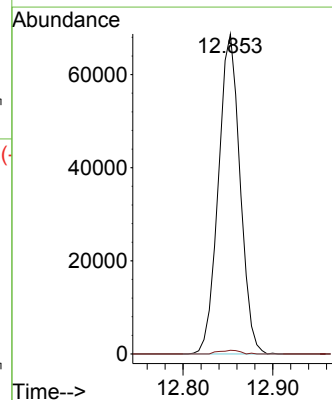
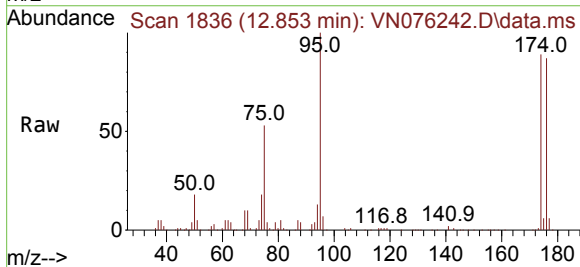
Instrument :
MSVOA_N
ClientSampleId :
TP-C

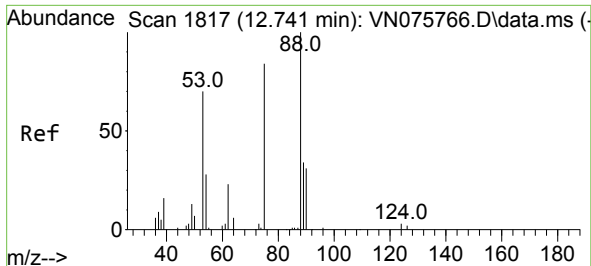
Tgt Ion: 43	Resp: 2431
Ion Ratio	Lower Upper
43 100	
70 0.0	41.4 62.0#
55 0.0	21.3 31.9#
61 0.0	21.2 31.8#



#76
1,2,3-Trichloropropane
Concen: 25.008 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.141 min
Lab File: VN076242.D
Acq: 13 Jan 2023 12:38

Tgt Ion: 75	Resp: 115135
Ion Ratio	Lower Upper
75 100	
77 1.1	82.6 247.8#

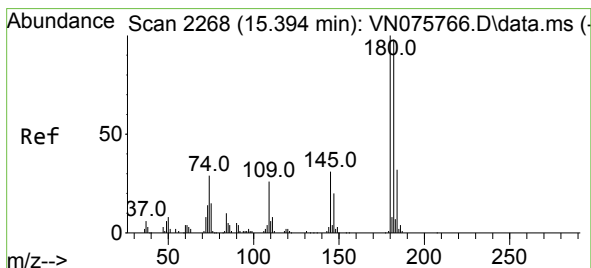
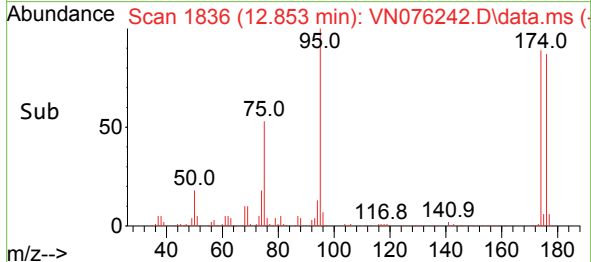
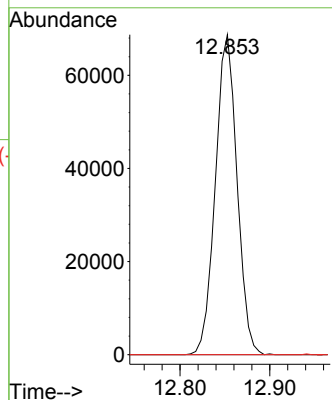
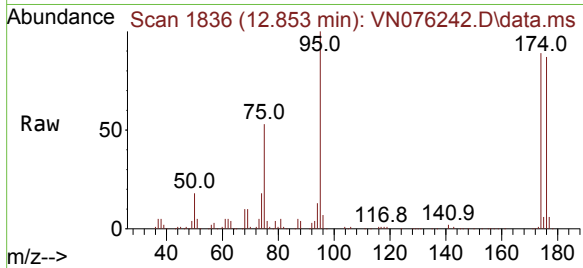




#81
trans-1,4-Dichloro-2-butene
Concen: 90.015 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.112 min
Lab File: VN076242.D
Acq: 13 Jan 2023 12:38

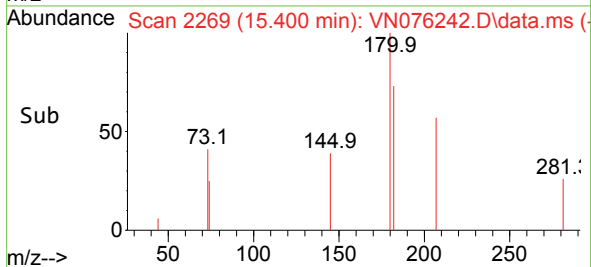
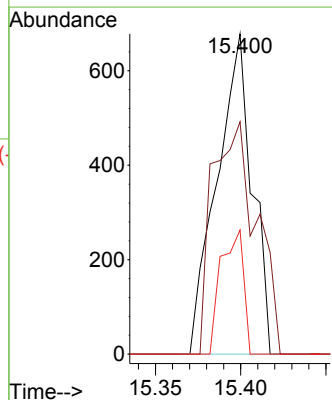
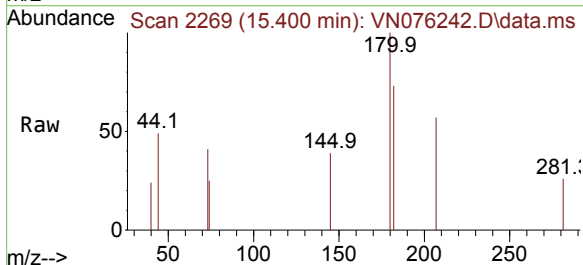
Instrument :
MSVOA_N
ClientSampleId :
TP-C

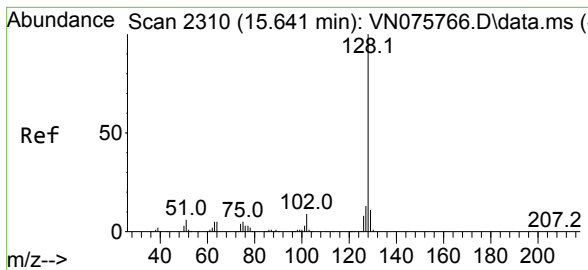
Tgt Ion: 75 Resp: 115135
Ion Ratio Lower Upper
75 100
53 0.0 73.8 110.6#
89 0.0 39.5 59.3#



#93
1,2,4-Trichlorobenzene
Concen: 0.259 ug/l
RT: 15.400 min Scan# 2269
Delta R.T. 0.006 min
Lab File: VN076242.D
Acq: 13 Jan 2023 12:38

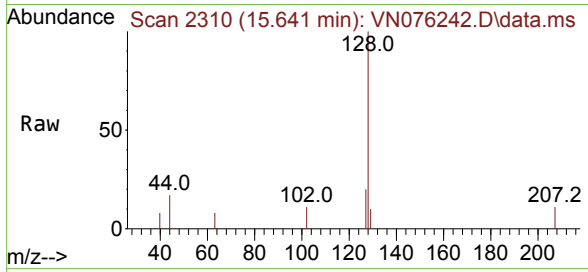
Tgt Ion:180 Resp: 975
Ion Ratio Lower Upper
180 100
182 90.5 47.5 142.5
145 24.7 15.3 45.8





#95
Naphthalene
Concen: 2.517 ug/l
RT: 15.641 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN076242.D
Acq: 13 Jan 2023 12:38

Instrument :
MSVOA_N
ClientSampleId :
TP-C



Tgt Ion:	128	Resp:	4415
Ion	Ratio	Lower	Upper
128	100		
127	11.8	10.4	15.6
129	5.8	8.7	13.1#

